Title (en)

DEPTH IMAGE COMPOSITION METHOD AND APPARATUS

Title (de)

TIEFENBILDZUSAMMENSETZUNGSVERFAHREN UND -VORRICHTUNG

Title (fr)

PROCÉDÉ ET APPAREIL DE COMPOSITION D'IMAGE DE PROFONDEUR

Publication

EP 3376762 A4 20190731 (EN)

Application

EP 16863458 A 20160823

Priority

- CN 201510778905 A 20151113
- CN 2016096353 W 20160823

Abstract (en)

[origin: EP3376762A1] Embodiments of the present application disclose a method and a device for synthesizing depth images, which relate to the technical field of image processing. The method includes: obtaining depth images to be synthesized, which are shot by real depth cameras respectively, wherein y-axes of respective camera coordinate systems of the real depth cameras are parallel to each other; calculating a mapping pixel point in a camera coordinate system corresponding to a virtual depth camera for each of pixel points in the depth images to be synthesized, according to pre-obtained pixel point mapping relationship, wherein camera parameters of the virtual depth camera are determined according to camera parameters of the real depth cameras, a lens optical center of the virtual depth camera is located in a connecting line of lens optical centers of the real depth cameras, an x-axis of the camera coordinate system corresponding to the virtual depth camera is parallel to the connecting line of lens optical centers of the real depth cameras; and generating a target synthesized depth image corresponding to the depth images to be synthesized, according to calculated mapping pixel points. By applying the solutions provided by the embodiments of the present application, a depth image with a large field of view can be obtained by image synthesis.

IPC 8 full level

G06T 7/30 (2017.01); **G06T 7/593** (2017.01); **H04N 13/111** (2018.01)

CPC (source: CN EP US)

G06T 3/14 (2024.01 - CN); **G06T 7/30** (2016.12 - EP US); **G06T 7/593** (2016.12 - EP US); **H04N 5/262** (2013.01 - US); **H04N 5/77** (2013.01 - US); **H04N 13/111** (2018.04 - EP US); **H04N 13/156** (2018.04 - US); **H04N 13/20** (2018.04 - US); **H04N 13/271** (2018.04 - EP US); G06T 2207/10028 (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)

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